

This listing of claims will replace all prior versions, and listings, of claims in our amendments or responses to Office actions.

**Listing of Claims:**

Claims 1-30 (cancelled)

31 (new). An isolated soluble cytokine complex comprising at least 6 amino acids of SEQ ID NO: 2 or 4 and at least 6 amino acids of SEQ ID NO: 12 or 13.

32 (new). The complex of claim 31 wherein the cytokine complex binds to a receptor complex comprising CNTF-R, gp130, and LIF-R.

33 (new). The cytokine complex of claim 31, wherein the cytokine complex is attached to at least one detection tag.

34 (new). The cytokine complex of claim 33, wherein the detection tag is selected from the group consisting of FLAG, His6, and Ig domain.

35 (new). A kit comprising the cytokine complex of Claim 31, wherein the kit contains:  
a) a compartment comprising the cytokine complex; and  
b) instructions for use or disposal of reagents in the kit.

36 (new). The cytokine complex of claim 31, wherein the cytokine complex comprises at least 6 amino acids of SEQ ID NO: 2 and at least 6 amino acids of SEQ ID NO: 12.

37 (new). The cytokine complex of claim 36, wherein the cytokine complex binds to a receptor complex comprising human CTNF-R, human gp130, and human LIF-R.

38 (new). The cytokine complex of claim 36, wherein the cytokine complex is attached to at least one detection tag.

39 (new). The cytokine complex of claim 38, wherein the detection tag is selected from the group consisting of FLAG, His6, and Ig domain.

40 (new). A kit comprising the cytokine complex of Claim 36, wherein the kit contains:

- a) a compartment comprising the cytokine complex; and
- b) instructions for use or disposal of reagents in the kit.

41 (new). The cytokine complex of claim 31, wherein the cytokine complex comprises the mature forms of SEQ ID NO: 2 and SEQ ID NO: 12.

42 (new). The cytokine complex of claim 41, wherein the cytokine complex binds to a receptor complex comprising human CTNF-R, human gp130, and human LIF-R.

43 (new). The cytokine complex of claim 41, wherein the cytokine complex is attached to at least one detection tag.

44 (new). The cytokine complex of claim 43, wherein the detection tag is selected from the group consisting of FLAG, His6, and Ig domain.

45 (new). A kit comprising the cytokine complex of Claim 41, wherein the kit contains:

- a) a compartment comprising the cytokine complex; and
- b) instructions for use or disposal of reagents in the kit.

46 (new). The cytokine complex of claim 41, wherein the cytokine complex induces the expression of neuromodulators by neurons.

47 (new). The cytokine complex of claim 46, wherein the neuromodulators are cholinergic neuromodulators.

48 (new). The cytokine complex of claim 47, wherein the cholinergic neuromodulators are selected from the group consisting of cholecystokinin (CCK), vasoactive intestinal polypeptide (VIP), substance P (SP), and somatostatin (SOM).

49. (new) A composition comprising the cytokine complex of claim 41 and an aqueous carrier.